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(54) Title: RADIATION-INDUCED THICKENING FOR SET-ON-COMMAND SEALANT COMPOSITIONS AND METHODS OF USE

(57) Abstract: The present invention includes methods relating to the setting of fluids or slurries in a wellbore. In one embodiment, a method of isolating a portion a wellbore by preparing a sealant composition comprising a fluid component and a polymeric additive component, placing the sealant composition into a wellbore and subjecting the sealant composition to ionizing radiation. The ionizing radiation can cause bonding between polymeric additive components and create a polymer matrix within the sealant composition that increases the mechanical strength of the sealant composition.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C04B28/02 C09K8/42 C09K8/467 C09K8/508
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C09K C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 2011/023935 A1 (HALLIBURTON ENERGY SERV INC [US]; LEWIS SAMUEL [US]; MYERS DAVID F [US] 3 March 2011 (2011-03-03) claims -----	1-55
X Y	US 2009/090514 A1 (BAILEY LOUISE [GB] ET AL) 9 April 2009 (2009-04-09) claims paragraph [0037] - paragraph [0074] -----	1-40,54, 55 41-53
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Y	US 4 828 761 A (MATTUS ALFRED J [US] ET AL) 9 May 1989 (1989-05-09) claims ----- -/-	41-53



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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